

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended) A lens shape measuring apparatus, comprising:

a lens fixing jig installed in a lens to be processed to clamp the lens;

a lens rotation shaft for clamping and rotating the lens to be processed;

a measuring element having a feeler abutted on a refracting surface of the lens

clamped by the lens rotation shaft;

a measuring unit for measuring a moving distance of the feeler of the measuring element; and

arithmetic control means for measuring a shape of the lens and for identifying a shape of the lens fixing jig,

wherein the arithmetic control means measures a size of an outer shape of the lens fixing jig based on both the moving distance of the measuring element and a signal from the measuring unit.

Claim 2 (Previously Presented) The lens shape measuring apparatus according to claim 1, wherein the lens rotation shaft is swung to be brought close to and to be separated from the measuring element.

Claim 3 (Canceled).

Claim 4 (Previously Presented) The lens shape measuring apparatus according to claim 1, wherein

the measuring unit includes a measuring element moving amount detecting mechanism.

Claim 5 (Previously Presented) The lens shape measuring apparatus according to claim 1, wherein the arithmetic control means controls the lens rotation shaft according to a measuring element moving amount detecting signal of the measuring unit.

Claim 6 (Canceled).

Claim 7 (Previously Presented) A lens shape measuring apparatus, comprising:
a lens fixing jig installed in a lens to be processed to clamp the lens;
a lens rotation shaft for clamping and rotating the lens to be processed;
a measuring element abutted on a refracting surface of the lens clamped by the lens rotation shaft;
a measuring unit for measuring a moving distance of the measuring element in a direction roughly parallel to the lens rotation shaft; and
arithmetic control means for moving a tip of the measuring element relatively in the direction roughly parallel to the lens rotation shaft, measuring a distance from a measuring reference position of the measuring element to an abutting position of the same by the measuring unit, and identifying a shape of the lens fixing jig based on a result of the measurement, wherein the arithmetic control means measures a size of an outer shape of the lens fixing jig.

Claim 8 (Currently Amended) ~~A lens shape measuring apparatus, comprising:
a lens fixing jig installed in a lens to be processed to clamp the lens;
a lens rotation shaft for clamping and rotating the lens to be processed;~~

~~a measuring element abutted on a refracting surface of the lens clamped by the lens rotation shaft;~~

~~measuring element rotating means for controlling rotation of the measuring element around a rotation shaft roughly parallel to the lens rotation shaft;~~

~~a measuring unit for measuring a moving distance of the measuring element in a direction roughly parallel to the lens rotation shaft; and~~

The lens shape measuring apparatus according to claim 1, wherein the arithmetic control means for rotating a tip of rotates the feeler of the measuring element around the lens rotation shaft, and identifying identifies a the shape of the lens fixing jig based on a distance of an abutted position of the tip the feeler of the measuring element from a measuring element reference position, wherein the arithmetic control means measures a size of an outer shape of the lens fixing jig.

Claim 9 (New) The lens shape measuring apparatus according to claim 1, wherein the arithmetic control means moves the feeler of the measuring element relatively in the direction roughly parallel to the lens rotation shaft, measures a distance from a measuring reference position of the measuring element to an abutting position of the same by the measuring unit, and identifies the shape of the lens fixing jig based on a result of the measurement.

Claim 10 (New) A lens shape measuring apparatus, comprising:

a lens fixing jig installed in a lens to be processed to clamp the lens;

a lens rotation shaft for clamping and rotating the lens to be processed;

a measuring element having a feeler abutted on a refracting surface of the lens clamped by the lens rotation shaft;

a measuring unit for measuring a moving distance of the feeler of the measuring element; and

arithmetic control means for identifying a shape of the lens fixing jig,

wherein the arithmetic control means controls the feeler of the measuring element to move on the lens fixing jig such that the feeler is positioned above the lens fixing jig, controls the moving distance of the feeler of the measuring element such that the feeler is close to said lens fixing jig, and detects whether or not the feeler is abutted on a side face of the lens fixing jig and judges whether or not the lens fixing jig is large or small in diameter to identify the shape of the lens fixing jig.